

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) Device for scanning a yarn ~~(2)~~ that is moved in its longitudinal direction in a measuring gap ~~(1)~~ with a light beam ~~(3)~~ from a light source, ~~which device has~~ comprising a receiver ~~(5, 6)~~ for light reflected at the yarn, ~~and~~ a unit ~~(9)~~ for processing electrical signals from the receiver, ~~characterised in that~~ and a single light source ~~(4) is provided~~ for emitting light in at least two wavelength regions ~~(29, 30)~~, the wavelength regions being determined by two main wavelengths, ~~(32, 33)~~ and the said unit ~~(9)~~ for processing electrical signals from the receiver ~~for received light having~~ including a computer which forms a vector ~~(44, 45, 46)~~ from the values for each of the at least two specified wavelength regions and forms a sum vector ~~(47)~~ from the vectors.

2. (Currently Amended) Device according to claim 1, ~~characterised in that~~ wherein the main wavelengths determine two colours in the region of wavelengths of visible light.

3. (Currently Amended) Device according to claim 2, ~~characterised in that~~ wherein the main wavelengths relate to the colours red, green and blue.

4. (Currently Amended) Device according to claim 1, ~~characterised in that~~ wherein the single light source ~~(4)~~ is in the form of a light-emitting diode which is able separately to emit visible light in three colours in the visible range.

5. (Currently Amended) Device according to claim 1, ~~characterised in that~~ wherein the single light source and a receiver ~~(6)~~ have principal axes ~~(11, 12)~~ for the emission and reception of light which together span a plane that is transverse to the longitudinal direction of the yarn.

6. (Currently Amended) Device according to claim 1, ~~characterised in that~~ wherein for the end point ~~(54)~~ of the sum vector ~~(47)~~ in a space ~~(42)~~ a region ~~(48, 49, 50)~~ is delimited which indicates whether the electrical signal from the receiver processed to form the sum vector indicates a foreign body in the yarn.

7. (Currently Amended) Device according to claim 6, ~~characterised in that~~ wherein the space ~~(42)~~ forms a cube which is formed by axes ~~(52, 53, 54)~~ along which values for the intensity of three main wavelengths are plotted.